

Coltrain, Katrina

From: Robinson, Kathleen
Sent: Tuesday, November 24, 2015 4:37 PM
To: Seaman, Marvene L HNC@NWO
Cc: ashley.j.allinder@usace.army.mil; Marsala, Jeffrey; Coltrain, Katrina
Subject: WAF for Wilcox Oil Co. Superfund site
Attachments: Wilcox Phase 1 COE5490-WAF-06GGTA00-00 20k.pdf

Please review and process the attached WAF for Phase 1 of the Wilcox Oil Co. Superfund site. Ashley Allinder is the USACE project officer in the Tulsa District for this tasking. He will be working with Douglas Sims, RPA Chief, NEPA & Cultural Resources Section Environmental Technical Service Branch in the Regional Planning & Environmental Center, Fort Worth District, USACE and other experts needed to complete this work . Since there will be USACE personnel in the Tulsa and Fort Worth District offices charging for this work, I wanted to make sure you had this information so that the proper accounts could be set up for them to charge. Contact information for both USACE employees is included on the funding document. Call or email me if you have questions. Thank you.

Kathleen Robinson

Superfund Division (6SF-VC)

Office: 214-665-2252 (Mon., Tues. Thurs.)

Telework: 972-569-0714 (Wed., 1st Fri.)

CWS: (2nd Fri.)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

November 24, 2015

IAG DW9695854901-3

Ms. Marvene Seaman (CEHNC-CX-ES)
U.S. Army Corps of Engineers
E&M Center of Expertise
1616 Capitol Ave., Suite 9200
Omaha, Nebraska 68102-9200

Dear Ms. Seaman:

The purpose of this letter is to issue a Work Authorization Form (WAF) under multi-site Interagency Agreement DW9695854901-3 to the U.S. Army Corps of Engineers (USACE), Tulsa District. The task is to provide technical assistance to the EPA, including preparing an independent assessment of cultural and historical resources in accordance with National Historic Preservation Act Section 106 for the Wilcox Oil Co. site located in Bristow, Creek County, Oklahoma. This WAF activates and provides funding for Phase 1 of the attached Statement of Work (SOW). The USACE should coordinate all actions with Katrina Coltrain, the EPA Remedial Project Manager (RPM) who can be reached in the office at 214-665-8143.

When billing EPA, please include the site name and the site specific accounting string listed on line two (2) of the attached funding form.

<u>Site Name</u>	<u>Funding Ceiling</u>
Wilcox Oil Co.	\$20,000.00
CERCLIS No.: OK0001010917	
EPA ID: 06GG	

Sincerely yours,

Kathleen Robinson
Project Officer
Superfund Division
Contracts and Budget (6SF-VC)

Enclosures

Statement of Work
Work Authorization Form 2014/2021 COE5490-WAF-06GGTA00-00

**EPA/USACE SUPERFUND PROGRAM
WORK AUTHORIZATION FORM (WAF)**

[X] Original [] Increase [] Decrease [] Time Extension


Date: 11/24/2015

Authorization is hereby given to provide support as described in the Superfund Generic Interagency Agreement (IA) identified below. The following information is provided for cost documentation purposes:

IA Number: DW9695854901-3	
Site Name: Wilcox Oil Company	Site ID: 06GG
Work Assignment Title (type of activity): Technical Assistance	
EPA Work Assignment Number: COE5490-WAF-06GG00-TA00	EPA Revision Number:
EPA CERCLIS Site ID Number: OK0001010917	IA Expiration Date: 01/30/2021
EPA RPM/OSC: Katrina Coltrain (Coltrain.Katrina@epa.gov)	Phone: 214-665-8143
Preferred USACE District (Optional): Tulsa District	
USACE Program/Project Officer: Ashley Allinder (Tulsa District) in conjunction with Douglas Sims (Regional Planning & Environmental Center Fort Worth District).	Ashley Office: 918-669-7413 Cell: 918-284-7450 Douglas Office: 817-886-1853 Cell: 817-965-2146
Scope of Work Description: <i>(See attached)</i> Activate Phase 1 of the SOW to Prepare an independent assessment of cultural and historical resources in accordance with National Historic Preservation Act Section 106.	

Previous Funding	Current Funding	Total Funding
\$0.00	\$20,000.00	\$20,000.00

	DCN	FY	AP PR	BUDGET ORG	PRC	BOC	SITE/ PROJECT	COST ORG	AMOUNT
Deobligate From:	156APLA003	15	TD	6A00P	303DD2	2506	06WQTA00	C001	\$20,000.00
Obligate To:	156APLA003	15	TD	6A00P	303DD2	2506	06GGTA00	C001	\$20,000.00


Kathleen Robinson/EPA IA Project Officer 6SF-VC

11/24/2015
Date

Signed Originals to:

EPA Cincinnati Finance Center
Accounting Operations Office (MS 002)
26 W. Martin Luther King Drive
Cincinnati, OH 45268

U.S. Army Corps of Engineers
Environmental & Munitions Center of Expertise
1616 Capitol Avenue, Ste. 9200
Omaha, NE 68102-9200

WORK AUTHORIZATION
Statement of Work (SOW)
Wilcox Oil Company Superfund Site
CERCLIS No.: OK0001010917 Site ID: 06GG
November 23, 2015

1.0 PURPOSE. The purpose of this Work Authorization issued to the Tulsa Division of the United States Army Corps of Engineers (USACE) under multi-site Interagency Agreement DW9695854901 between the Environmental Protection Agency (EPA) and the USACE is to provide technical support to EPA, including preparing an independent assessment of cultural and historical resources in accordance with National Historic Preservation Act Section 106 for the Wilcox Oil Company Superfund Site (Site).

In general, this work will be conducted in phases since subsequent phases and the level of effort associated with those phases will be dependent on information reviews and findings of the previous work. EPA has initiated the review process with the Oklahoma Historical Society State Historic Preservation Office, the Oklahoma Archeological Survey, and the Muscogee (Creek) Nation historic Preservation Office. Letters and information exchanged between EPA and these entities should be used as a starting point and reference as well as any data generated by EPA during the Phase 1 investigation activities being performed as part of the remedial investigation for the site.

2.0 BACKGROUND

Full Title of Site: Wilcox Oil Company Superfund Site (OK0001010917) Site ID: 06GG

Federal Funding Agency: The funding agency requesting the historical review is the United States Environmental Protection Agency, Region 6.

Wilcox Oil Company Location: Reference Maps included.

Address: West 221st Street South/Refinery Road, 0.35 mile east of U.S. Highway 66

City, County, State: Bristow, Creek County, OK, 74010

Topographic Map: Bristow Quadrangle, OK

Latitude: 35°50'26.8966" N Longitude: 96°22'48.693" W

Township-Range: N ½ of the NW ¼ of S29 T16N R9E and the SW ¼ of the SW ¼ of S20 T16N R9E

Site History and Background: The Wilcox Oil Company Superfund Site (Site) is an abandoned and demolished oil refinery and associated tank farm located north of Bristow, Creek County, Oklahoma. The geographic coordinates of the Site are approximately 35°50'31" North latitude and 96°23'02" West longitude. A detailed title search in the Creek County Clerk office confirms that the property was used in oil refinery operations from approximately 1915 until November 1963. The former Lorraine refinery, including associated tank farm, covers approximately 20 of the 125 acre Site, and operated under numerous companies from approximately 1915 to 1937 when the property was sold to Wilcox Oil and Gas Company. Wilcox Oil and Gas Company purchased refinery operations on the remaining acres east of the railroad tracks and operated as a crude oil refinery from the 1920s until the property was sold on 1 November 1963.

A modern skimming and cracking plant was constructed in 1929. The upgraded facility had an operating capacity of 4,000 barrels of crude oil per day. The main components of the system consisted of a skimming plant, cracking unit, and redistillation battery with a vapor recovery system and continuous treating equipment. The crude oil was brought directly from the field, eliminating storage and handling facilities, but resulting in crude with high sediment and water.

Sanborn fire insurance maps can be used to understand historical property usage. The Wilcox Oil and Gas Company and Lorraine Refining Company Sanborn Insurance Maps indicate that the properties contained approximately 80 storage tanks of various sizes, a cooling pond, and around 10 buildings housing refinery operations. The maps also indicate that crude oil, fuel oil, gas oil, distillate, kerosene, naphtha, and benzene (petroleum ether) were all stored on the property.

The Site can be divided into four major former operational areas: the Wilcox refinery, the Lorraine refinery, the north tank farm, and the east tank farm.

- The former Wilcox refinery area is fenced and covers approximately 26 acres. Most of the equipment and storage tanks that remained on-site in 1963 were auctioned and have been salvaged for scrap iron by private land owners, and what remains are in ruins. Four aboveground storage tanks (12,500 gallons each) remain standing, in addition to a number of buildings, discarded drums and pieces of scrap iron and piping. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature. A building in the northern part of the former refinery has been converted to a residence. An intermittent creek flows southward across the eastern portion of the refinery area through a small pond in the southeast corner of the refinery area and into Sand Creek.
- The former Lorraine refinery area covers approximately 8 acres and includes the southwestern portion of the Site, south of Refinery Road and west of the railroad. No refinery structures remain in the processing area. The First Assembly of God Church, a playground, and one residence are located here. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature.
- The East tank farm was a large crude oil storage area/tank farm covering approximately 79 acres and contains pits, ponds, and a number of circular berms that surrounded tank locations. All of the tanks have been cut down and removed; however, remnants of the tank locations remain and are visible. Many of the berms surrounding the pits, ponds, and former tanks have been cut or leveled. An intermittent creek is located in the eastern portion of the tank farm and flows south to Sand Creek. A pumping or gas compressor station exists in the north-central portion of the Site, and an active pipeline crosses from northwest to southeast across the middle of the Site. There are four residences located on top of or directly next to former tank locations. There are multiple areas of stressed vegetation, barren areas, and visible black tarry waste of a hydrocarbon nature. Waste was also observed in several drainage channels that empty into Sand Creek.
- The North tank farm was a crude and fuel oil storage area consisting of approximately 12 acres. No refinery structures remain in the product storage area, and all tanks have been cut down and removed. Remnants of the tank locations are not visible, and historic locations are difficult to pinpoint. One residence is located in this area.

After the refinery operations ceased and most of the tanks and buildings demolished and sold for scrap, the property was sold to private interests. Beginning in 1975 with the construction of the church, private residences were constructed on 6 parcels of land that were part of the former refinery operations. The most recent being constructed in 2003/2004. One former building associated with the refinery was repurposed as a residence. As a result, there are a total of seven residences on the Site, all of which are located on former tank or refinery operations locations. Three of the residences located on the eastern portion of the Site are known to use water from domestic/private wells. The drainage pattern of the Site is primarily towards Sand Creek which provides the western and southwestern boundaries of the Site. Two intermittent streams and several drainage channels cross the portion of the Site east of the railroad and flow into Sand Creek.

The refinery waste source areas of concern include a backfilled oily waste pond and pit, a breached settling pond, a former pond apparently backfilled with solid refinery waste, and a number of former tank storage areas. The contaminants of concern are metals and organic compounds (Total Petroleum Hydrocarbons (TPH) and Polycyclic Aromatic Hydrocarbons (PAHs)). These potential contaminants of concern are found in soil, sediment, and waste material.

Investigation History: Multiple investigations have been performed on the Site since 1994. These documents were used to summarize the Site background and operational history described above.

- Preliminary Assessment (PA) was performed at the former Wilcox Refinery Site by the Oklahoma Department of Environmental Quality (ODEQ) in December 1994.
- Expand Site Inspection (ESI) was performed at the former Wilcox Refinery Site for the Environmental Protection Agency (EPA) in March 1997.
- Site Assessment (SA) was performed at the former Wilcox Refinery Site by EPA in March 1999.
- PA was performed at the former Lorraine Refinery Site by ODEQ in September 2008.
- Site Inspection (SI) was performed at the former Lorraine Refinery Site by ODEQ in August 2009.
- ESI was performed at the former Lorraine Refinery Site by ODEQ in September 2010.
- ESI was performed at the former Wilcox Refinery Site by ODEQ in September 2011.
- Hazard Ranking System Package completed in May 2013.
- Residential Sampling completed 2015. Data review is underway.
- 2015: Planned and ongoing RI investigation by EPA including geophysical and direct sensing techniques.

Cleanup History: The following actions have been taken at the Site.

- EPA and ODEQ met with residents on March 24 and 25, 2015, to talk about property sampling. As a result, the EPA sampled 9 residential properties in May/June 2015 and fenced additional areas of concern.
- In November 2014, ODEQ informed EPA that there was a potential elevated level of lead in the blood of a child living on the Site. The EPA developed a sampling plan and sampled the property in December 2014.
- In July 2014, the EPA installed a cap on the drinking water well near the Church on the Site and put up a fence with signs around an area of concern.
- Currently, ODEQ is performing quarterly testing of drinking water wells for residents in and around this Site. No Maximum Contaminant Levels (MCLs) have been exceeded.

Cleanup Status: This Site is currently in the Remedial Investigation and Feasibility Study phase of the Superfund process. The RI/FS identifies the type and extent of contamination, evaluates if there is a health risk for humans and wildlife, identifies a list of cleanup options that can be used to cleanup the contamination at the Site, and estimates the cost of each cleanup option. Based on results of the RI/FS phase, a Proposed Plan is written to identify the preferred cleanup option and the cost. The Proposed Plan is expected to be released to the public for review and comment in 2018.



Figure 1: Site aerial photograph showing areas of interest.

2.1 PROJECT POINT OF CONTACT (POCs).

Technical POC: Katrina Higgins-Coltrain, EPA Region 6, 1445 Ross Avenue, Suite 1200, Dallas, Texas 75202, Remedial Project Manager, 214-665-8143.
coltrain.katrina@epa.gov

Financial POC: Kathleen Robinson, EPA Region 6, 214-665-2252.
robinson.kathleen@epa.gov;

Marvene Seaman, CEHNC-EMS, 402-697-2425.
Marvene.L.Seaman@usace.army.mil

2.2 PROJECT DELIVERY TEAM.

Technical POCs: Ashley Allinder, P.E., Project Manager
Programs and Project Management Division, Military Programs Branch Tulsa District, USACE
1645 S 101 E Ave, Tulsa, OK 74128-4609
918-669-7413 ashley.j.allinder@usace.army.mil

3.0 SCOPE OF WORK. This section outlines the tasks that the PDT will perform to accomplish the requirements described in EPA's Work Authorization.

Phase 1: Site Visit and NHPA Discussion

1. Select members will travel to meet with the EPA RPM for planning purposes and to inspect the Site and to become familiar with the surroundings. Include one overnight trip to the Site for not more than two persons.
2. Select members will travel to meet with the historic preservation contacts for Oklahoma and the Muscogee (Creek) Nation. Include one overnight trip for not more than two persons. Efforts should be made to combine the travel listed under numbers 1 and 2.
3. Review previous site information shared between EPA and historic preservation contacts. The letters and maps are included with the SOW. In addition, the draft geophysics report is also included for reference.
4. Work may include the documentation of existing buildings using the Oklahoma Historic Preservation Resource Identification Form.

Phase 2: Project Planning/Support and NHPA Research

1. Complete any additional research or information gathering that will assist in the evaluation of the presence or absence of historical or cultural resources.
2. Based on a review of the previous work, the site reconnaissance, and any conversations with historic preservation contacts and/or private land owners, summarize the findings, interpretations, and/or recommendations for the site as it relates to the presence or absence of historical or cultural resources.
3. Communicate at least weekly with the EPA Remedial Project Manager (RPM) regarding progress and issues identified during the report review.
4. Maintain all technical and financial records associated with this Work Authorization.
5. Prepare and submit monthly progress reports and invoices to document monthly and cumulative cost, performance status, and technical progress.

DELIVERABLES

1. Submit progress reports and invoices to the EPA RPM for each month no later the 15th day of the following month.
2. Submit a report/technical memorandum to the EPA completing Phase 1 within 4 weeks of initiation of this Work Authorization.
3. If it is determined through the work completed under Phase 1 that further work is necessary, then submit a report/technical memorandum to the EPA completing Phase 2 within 6 weeks of completing Phase 1.

4. Provide technical support to EPA, including preparation of technical memorandums regarding the above issues during the Period of Performance.

PERIOD OF PERFORMANCE

It is anticipated that this Work Authorization will cover a time interval of approximately 6 months, or until March 31, 2016.